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ITD 224  
W8W96

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United States  
Department of  
Agriculture



Soil  
Conservation  
Service

Casper,  
Wyoming



# Wyoming Water Supply Outlook

June 1, 1986

2562745



# Foreword

## How Forecasts Are Made

Most of the annual streamflow in the Western United States originates as snowfall. This snowfall accumulates high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are viewed in conjunction with snowpack data to prepare runoff forecasts. This report presents a comprehensive picture of water supply outlook conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data and narratives describing current conditions.

Streamflow forecasts are cooperatively generated by Soil Conservation Service and National Weather Service hydrologists. Forecasts become more accurate as more data affecting runoff becomes known. For this reason, forecasts are issued that reflect three future precipitation conditions — Below Normal, Average, and Above Normal. These forecasts are termed reasonable minimum, most probable, and reasonable maximum. Actual streamflow can be expected to fall between the lower and upper forecast values eight out of ten years.

Snowpack data are obtained by using a combination of manual and automated measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation, temperature, and other parameters are monitored on a daily basis and transmitted via radio telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

## For More Information

Copies of Monthly Water Supply Outlook Reports and other reports may be obtained from the states listed below. Because of the limited space, snow survey measurements are not published in monthly reports. An annual snow survey data summary is published by the Soil Conservation Service for each of the western states. Historical snow survey data may be obtained at those same offices.

STATE	ADDRESS
Alaska	201 East 9th Ave., Suite 300, Anchorage, AK 99501-3687
Arizona	201 East Indianola, Suite 200, Phoenix, AZ 85012
Colorado (New Mexico)	2490 West 26th Ave., Denver, CO 80211
Idaho	304 North 8th Street, Room 345, Boise, ID 83702
Montana	10 East Babcock, Room 443, Federal Building, Bozeman, MT 59715
Nevada	50 South Virginia Street, Third Floor, Reno, NV 89505
Oregon	1220 Southwest 3rd Ave., 16th Floor, Portland, OR 97204
Utah	4402 Federal Building, 125 South State Street, Salt Lake City, UT 84147
Washington	360 U.S. Court House, Spokane, WA 99201
Wyoming	Federal Building, 100 East "B" Street, Casper, WY 82602

In addition to state reports, a Water Supply Outlook for the Western United States is published by the Soil Conservation Service and National Weather Service monthly, January through May. Reports may be obtained from the Soil Conservation Service, West National Technical Center, 511 Northwest Broadway, Room 547, Portland, OR 97209.

Published by other agencies:

Water Supply Outlook Reports prepared by other agencies include: California — Snow Survey Branch, California Department of Water Resources, P.O. Box 388, Sacramento, CA 98502; British Columbia — The Ministry of Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia, V8V 1X5; Yukon Territory — Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory, Y1A 3V1; Alberta, Saskatchewan, and N.W.T. — The Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta, T3C 1A6.



# Wyoming

## Water Supply Outlook and

### Federal-State-Private Cooperative Snow Surveys

**Issued by**

Wilson Scaling  
Chief  
Soil Conservation Service  
Washington, D.C.

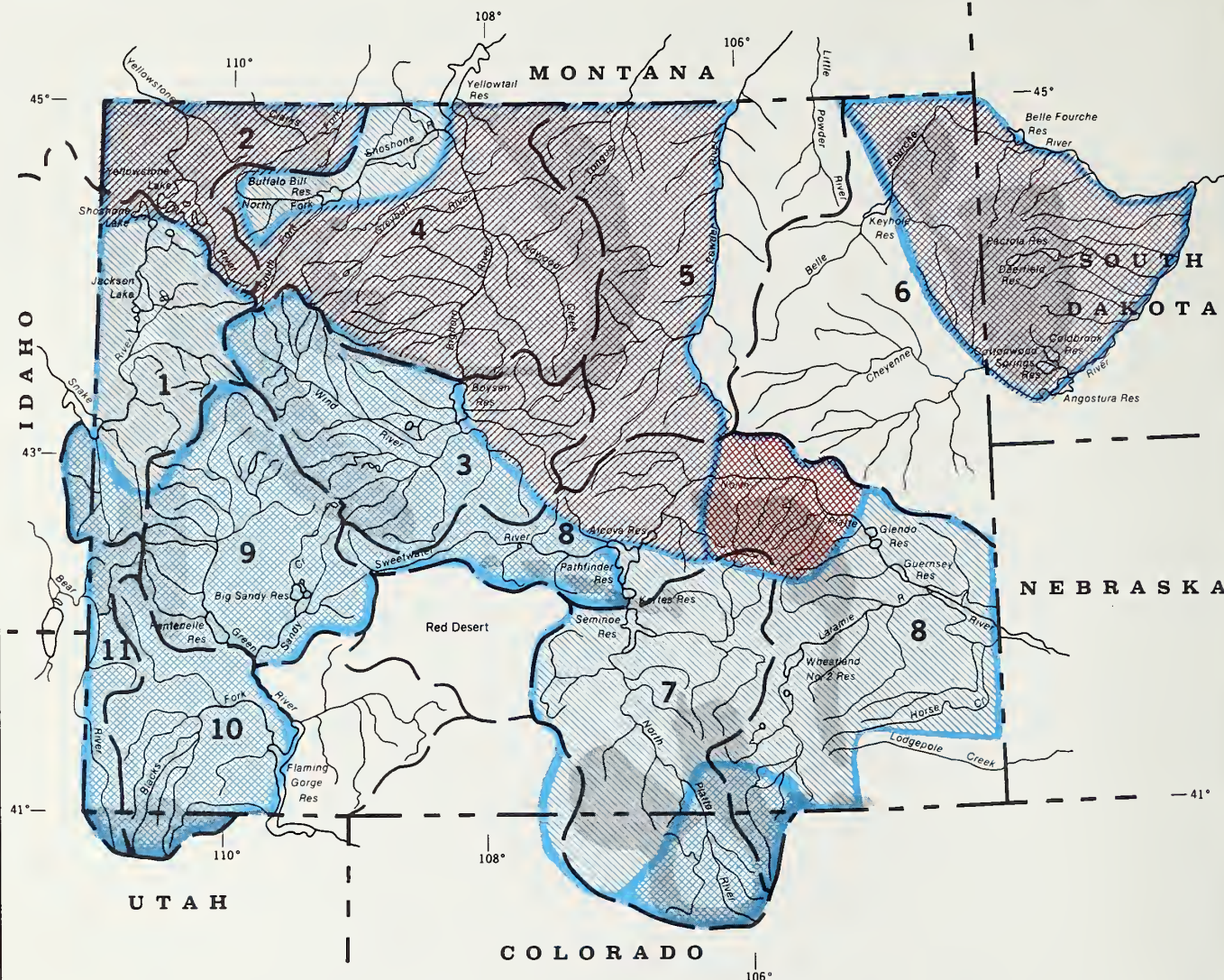
**Released by**

Frank S. Dickson  
State Conservationist  
Soil Conservation Service  
Casper, Wyoming

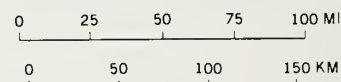
**Prepared by**

Ted Gilbert  
Acting Water Supply Specialist  
Soil Conservation Service  
Room 3124, 100 East B Street  
Casper, Wyoming 82601

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## STREAMFLOW PROSPECTS WYOMING



SOURCE: Data compiled by SCS  
 Field Personnel.

USDA SCS-FORT WORTH, TEXAS 1985

JULY 1985 4-R-39346

FORMERLY 7-L-22029G



## GENERAL OUTLOOK

### SUMMARY:

WATER USERS SHOULD HAVE ENOUGH WATER TO MEET THEIR NEEDS THIS SPRING AND SUMMER. WHILE THE SNOWPACK THROUGHOUT THE STATE IS MELTING, IT REMAINS ABOVE AVERAGE. MAY PRECIPITATION FOR THE EAST HALF OF THE STATE WAS BELOW AVERAGE AND ABOVE AVERAGE FOR THE WEST HALF. SOME AREAS ARE EXPERIENCING LOCAL FLOODING AS THE SNOWPACK ERODES.

### SNOWPACK:

Even though late May saw the beginning of the erosion of the snowpack, much of the snowpack throughout the state remains near to much above average. An extended period of warm temperatures near the end of May has caused the snowpack to start melting. Some locations throughout the state experienced local flooding as a result. The Upper Green River, Wind River, Bear River, and Upper Laramie River drainages are showing snowpacks that are much above average. Some of these areas are as much as 120% above normal for this time of year. The snowline for most of the state has retreated to above the 8500 feet level.

### PRECIPITATION:

May precipitation for the eastern one-half of the state was mostly below average to near normal. Central areas were slightly above normal. However, the eastern edge of the Wind River drainage in central Wyoming received only one-half of normal. Western areas were 25% to 75% above normal. Most precipitation in the western areas occurred during the first half of the month. Seasonal comparisons remained mostly above normal. The Green, Bear, and Wind River drainages in western and central Wyoming remained very high...50% to 75% above normal. Northwest, central and eastern areas were slightly below normal to near normal.

### RESERVOIRS:

Water storage in the major reservoirs in the state is in most cases less than at this time last year. This is mainly due to the anticipated heavy runoff in many of the drainages. Exceptions to this are Glendo, Guernsey, and Pathfinder reservoirs on the North Platte River and all the larger storage reservoirs in the Belle Fourche and Cheyenne River drainage. These reservoirs are storing more water than at this time last year.

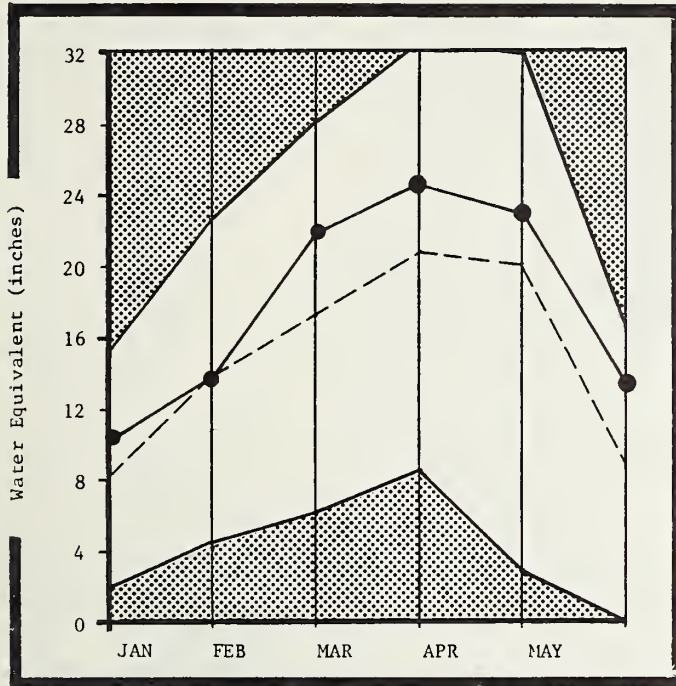
## STREAMFLOW:

Spring and summer streamflow forecasts for most of the state continue to be above average. The exceptions are still the Deer Creek and La Prele Creek drainages in east-central Wyoming. These drainages are expected to yield only about 60% of normal. Flows in the Bear River, Green River, Wind River, Upper North Platte River, and Laramie drainages are expected to be much above average. Flows in these drainages are forecast to be between 30% and 100% above normal. Streamflows in the rest of the state are predicted to be from near average to about 20% above average. Water users can expect to have adequate supplies this spring and summer. These forecasts are dependent upon average precipitation during the spring season. The forecasts in this bulletin are the result of coordinated activity between the Soil Conservation Service and the National Weather Service, in an effort to provide the best possible service to the water users.







# SNAKE RIVER BASIN

MOUNTAIN SNOWPACK\*

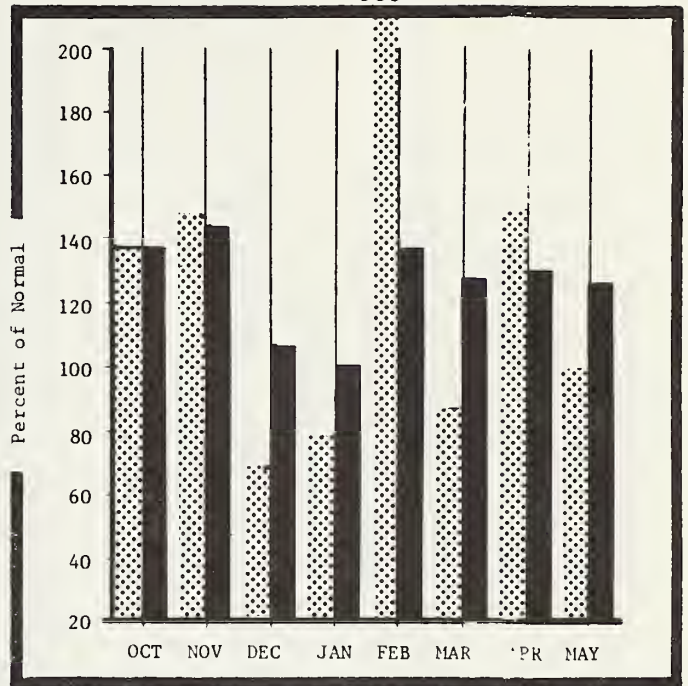


\*Based on selected stations

Maximum  Average   
 Minimum  Current 

PRECIPITATION\*

305



\*Based on selected stations

Monthly precipitation  Year to date precipitation 

## WATER SUPPLY OUTLOOK:

Streamflow forecasts for this basin is above average with the Snake River predicted to be 20% above normal. Snowpack remains above average. Storage in Palisades is only about half of last year in anticipation of heavy inflow from melting snowpack.

For more information contact your local Soil Conservation Service office.

# SNAKE RIVER BASIN

## STREAMFLOW FORECASTS

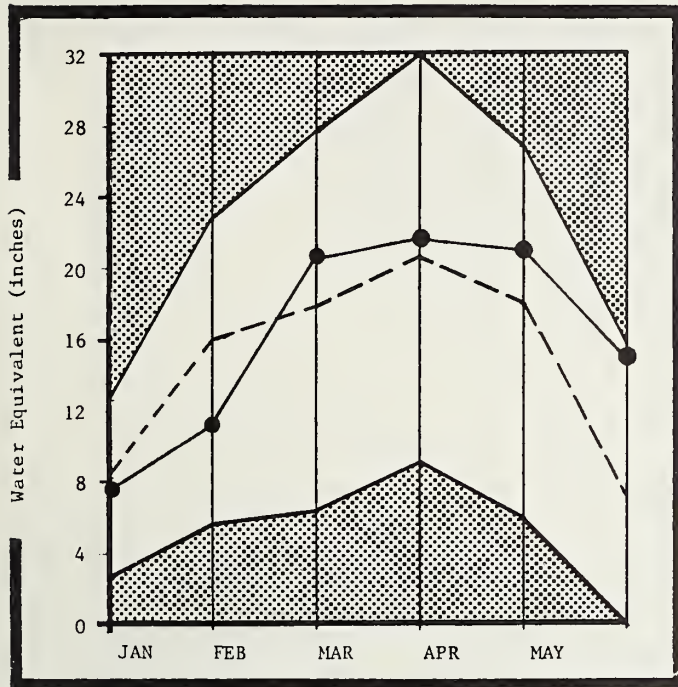
FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
SNAKE RIVER near Moran *	APR-SEP	880.0	1000.0	114	123	105				
SNAKE RIVER above Palisades *	APR-SEP	2730.0	3170.0	116	125	107				
SNAKE RIVER at Heise, ID *	APR-SEP	4066.0	0.0	0						
PACIFIC CREEK at Moran	APR-SEP	174.0	225.0	129	147	111				
GREYS RIVER above Palisades	APR-SEP	393.0	525.0	134	152	116				
SALT RIVER near Etna	APR-SEP	394.0	515.0	131	158	97				
PALISADES RESERVOIR Inflow *	APR-SEP	3793.0	4550.0	120	129	111				
SHIFT CREEK near Afton	MAY-SEP	46.0	46.0	100	117	83				

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.	WATERSHED	NO. COURSES AVE.0	THIS YEAR AS % OF LAST YR. AVERAGE	
GRASSY LAKE	15.1	14.9	15.4	---	SNAKE above JACKSON LAKE	2	519	150
JACKSON LAKE	624.4	116.6	285.9	---	PACIFIC CREEK	0	0	0
PALISADES	1200.0	579.6	1191.5	---	GROS VENTRE RIVER	1	281	117
					HOBACK RIVER	0	0	0
					GREYS RIVER	0	0	0
					SALT RIVER	0	0	0
					SNAKE above PALISADES	3	402	137





\*Corrected for upstream diversions or changes in reservoir storage.  
 Average is for 1961-80 period.

# UPPER YELLOWSTONE AND MADISON RIVER BASINS

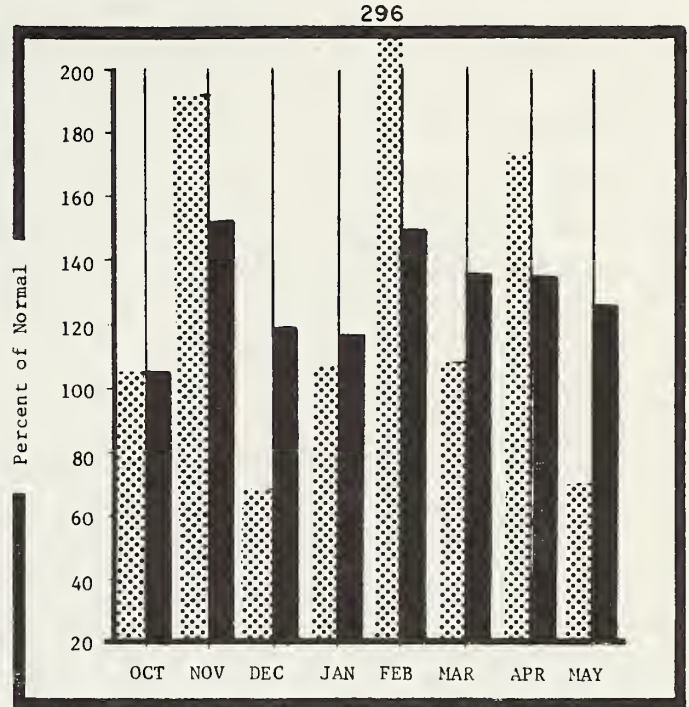
MOUNTAIN SNOWPACK\*



\*Based on selected stations

Maximum  Average   
 Minimum  Current 

PRECIPITATION\*



\*Based on selected stations

Monthly precipitation  Year to date precipitation 

## WATER SUPPLY OUTLOOK:

Snowpack is near normal for this time of year. Water users can expect near normal streamflows through the spring and summer. Reservoir storage is nearly the same as last year and slightly greater than the long term average.

For more information contact your local Soil Conservation Service office.



# UPPER YELLOWSTONE and MADISON RIVER BASINS

## STREAMFLOW FORECASTS

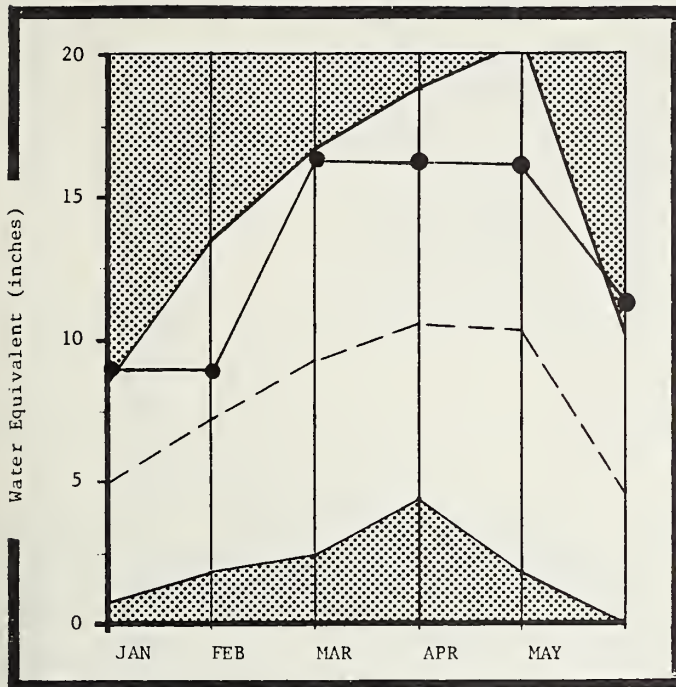
FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
YELLOWSTONE RIVER at Lake Outlet	APR-SEP	826.0	925.0	112	124	100				
YELLOWSTONE RIVER at Corwin Spgs.	MAY-SEP	1944.0	1750.0	90	102	78				
YELLOWSTONE RIVER near Livingston	MAY-SEP	2269.0	2000.0	88	100	76				
MADISON RIVER near Grayling, MT *	MAY-SEP	440.0	465.0	106	118	94				

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.	WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	% OF AVERAGE
ENNIS LAKE	41.0	35.7	33.5	35.8	UPPER MADISON RIVER	4	283	131
HEBGEN LAKE	377.5	338.5	357.9	291.7	CLARKS FORK	10	293	104
					UPPER YELLOWSTONE RIVER	5	269	106





\*Corrected for upstream diversions or changes in reservoir storage.  
Average is for 1961-80 period.

# WIND RIVER BASIN

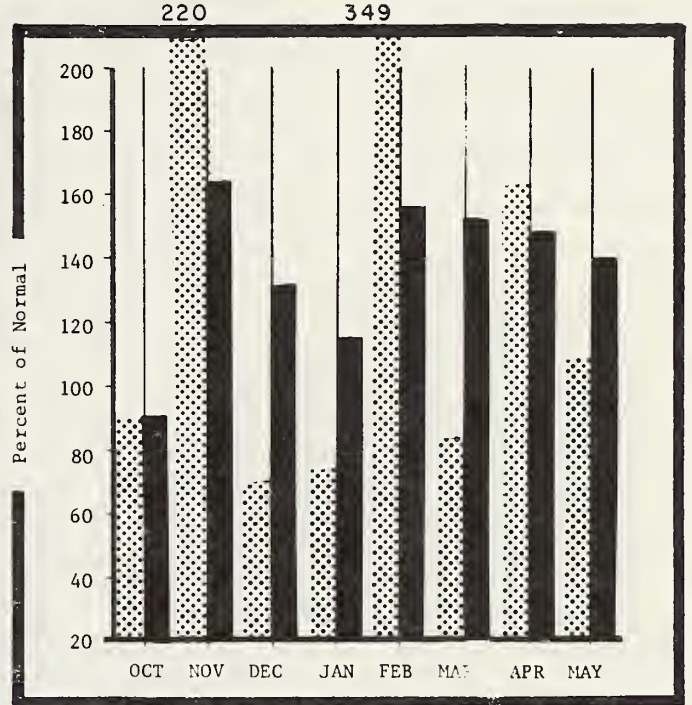
## MOUNTAIN SNOWPACK\*



\*Based on selected stations

Maximum  Average   
Minimum  Current 

## PRECIPITATION\*



\*Based on selected stations

Monthly precipitation  Year to date precipitation 

## WATER SUPPLY OUTLOOK:

Streamflows are predicted to be much above average. Water users can expect enough water to meet their needs this season. Snowpack remains much above average as it has through the winter. Reservoir storage is less than at this time last year, but is nearly 50% of total usable capacity.

For more information contact your local Soil Conservation Service office.

# WIND RIVER BASIN

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
WIND RIVER near Dubois	APR-SEP	106.0	140.0	132	150	114				
WIND RIVER at Riverton *	APR-SEP	678.0	950.0	140	162	118				
WIND RIVER below Boysen *	APR-SEP	1163.0	1625.0	140	160	120				
BULL LAKE CREEK near Lenore *	APR-SEP	188.0	255.0	136	156	115				
LITTLE POPO AGIE RIVER near Lander	APR-SEP	53.0	75.2	142	166	117				

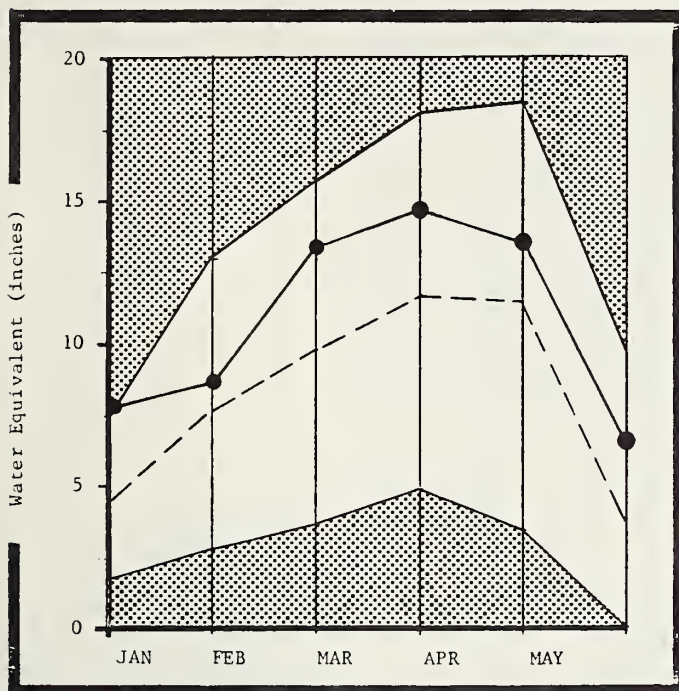
RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	USEABLE STORAGE THIS YEAR	USEABLE STORAGE LAST YEAR	USEABLE STORAGE AVE.	WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AS % OF AVERAGE
BULL LAKE	151.1	75.2	94.6	---	UPPER WIND RIVER	1	281	117
BOYSEN	549.9	261.4	312.8	---	WIND above RIVERTON	5	446	114
PILOT BUTTE	31.6	16.4	29.7	---	POPO AGIE	0	0	0
					WIND above BOYSEN	5	446	114

\*Corrected for upstream diversions or changes in reservoir storage.  
Average is for 1961-80 period.

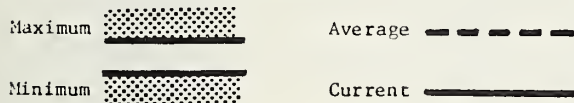


# BIGHORN RIVER BASIN

## MOUNTAIN SNOWPACK\*

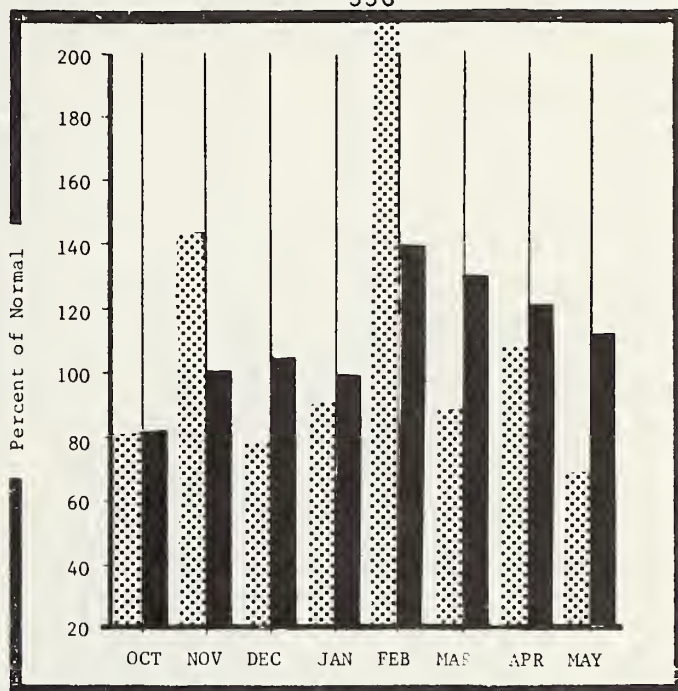


\*Based on selected stations



## PRECIPITATION\*

336



\*Based on selected stations



## WATER SUPPLY OUTLOOK:

Near normal streamflows are predicted for this basin. Snowpack at the high elevation is normal to slightly above normal. Storage in Buffalo Bill reservoir is more than last year, while water in Bighorn Lake is about 100,000 acre feet less than last year. Water users should have adequate supplies for the season.

For more information contact your local Soil Conservation Service office.

# BIGHORN RIVER BASIN

## STREAMFLOW FORECASTS

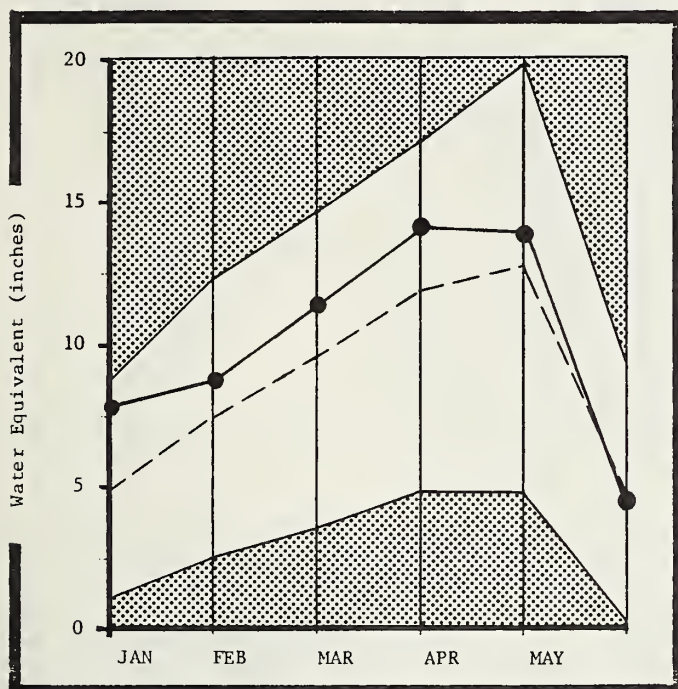
FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
WIND RIVER below Boysen *	APR-SEP	1163.0	1625.0	140	160	120				
SHELL CREEK near Shell	APR-SEP	78.0	78.0	100	135	76				
GREYBULL RIVER at Meeteetse	APR-SEP	215.0	230.0	107	127	87				
SHOSHONE RIVER blw Buffalo Bill *	APR-SEP	845.0	1000.0	118	136	100				
CLARKS FORK near Belfry	MAY-SEP	606.0	615.0	101	120	83				
SOUTH FORK SHOSHONE near Valley	APR-SEP	278.0	300.0	108	128	88				
NOWOOD RIVER near Tensleep	MAR-SEP	71.0	70.0	99	118	79				

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	*** USEABLE STORAGE *** THIS YEAR	LAST YEAR	AVE.	WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	% OF AVERAGE
BOYSEN	549.9	261.4	312.8	---	SHOSHONE RIVER	4	381	128
BUFFALO BILL	373.1	244.9	237.5	---	NOWOOD RIVER	0	0	0
BIGHORN LAKE	1356.0	785.2	891.6	702.7	GREYBULL RIVER	2	0	183
					SHELL CREEK	3	365	113
					BIGHORN (Boysen-Bighorn)	12	458	122

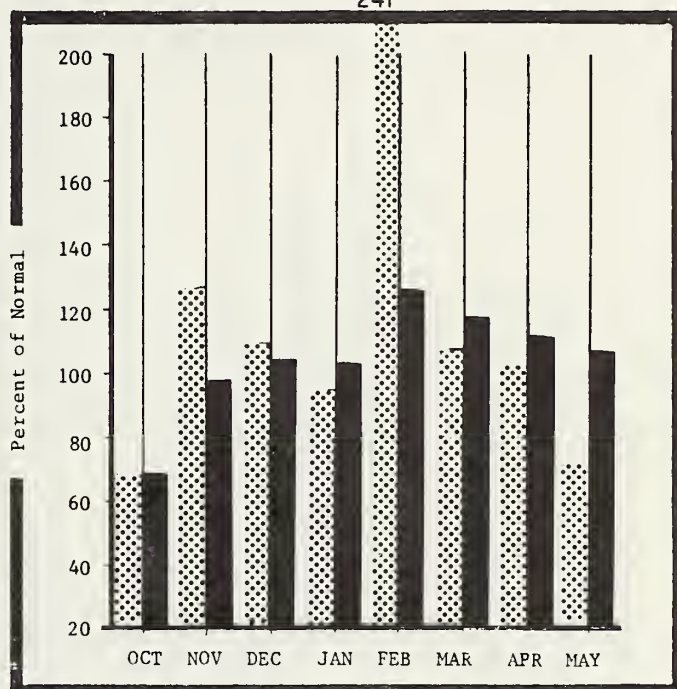
\*Corrected for upstream diversions or changes in reservoir storage.  
Average is for 1961-80 period.

# POWDER AND TONGUE RIVER BASINS

MOUNTAIN SNOWPACK\*









PRECIPITATION\*



\*Based on selected stations

\*Based on selected stations

Maximum  Average   
Minimum  Current 

Monthly precipitation  Year to date precipitation 

## WATER SUPPLY OUTLOOK:

Water users can expect near normal streamflows during the spring and summer. Snowpack at many locations eroded rapidly during the latter part of the month. Precipitation during May was below normal.

For more information contact your local Soil Conservation Service office.



# POWDER and TONGUE RIVER BASINS

## STREAMFLOW FORECASTS

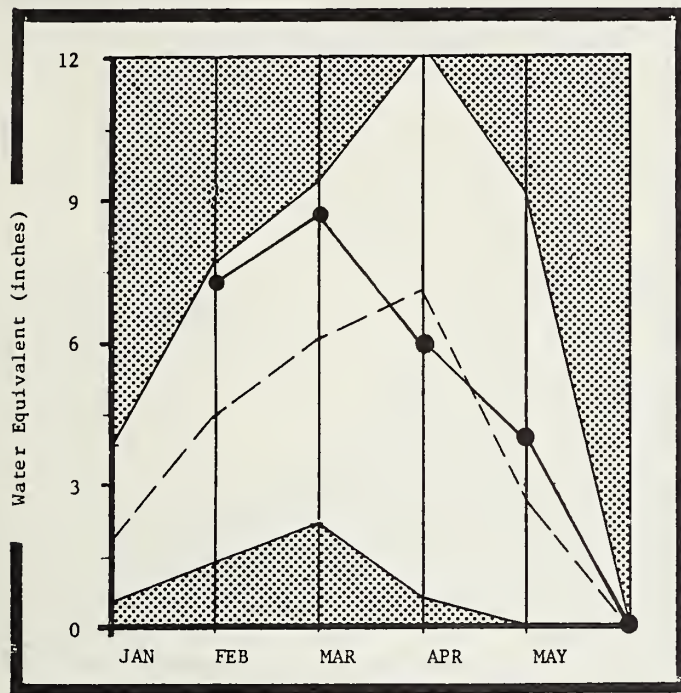
FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
TONGUE RIVER near Dayton *	APR-SEP	123.0	115.0	93	119	68				
MIDDLE FORK POWDER near Barnum	APR-SEP	21.6	21.5	100	130	69				
NORTH FORK POWDER near Hazelton	APR-SEP	10.6	11.1	105	132	75				
CLEAR CREEK near Buffalo	APR-SEP	40.0	42.5	106	138	78				
ROCK CREEK near Buffalo	APR-SEP	25.4	26.5	104	134	75				
PINEY CREEK at Kearny	APR-SEP	54.8	57.5	105	135	75				
LITTLE BIGHORN at Hardin, MT	MAY-SEP	157.0	0.0	0						

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	USEABLE STORAGE THIS YEAR	USEABLE STORAGE LAST YEAR	USEABLE STORAGE AVE.	WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR. AVERAGE	
TONGUE RIVER	68.0	42.0	45.2	48.8	UPPER TONGUE RIVER	3	0	5
					GOOSE CREEK	1	0	0
					CLEAR CREEK	1	0	0
					CRAZY WOMAN CREEK	0	0	0
					POWDER RIVER	7	2433	46

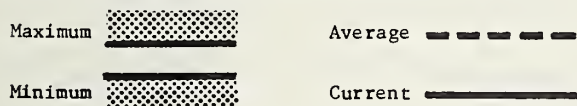
\*Corrected for upstream diversions or changes in reservoir storage.  
Average is for 1961-80 period.

# BELLE FOURCHE AND CHEYENNE RIVER BASINS

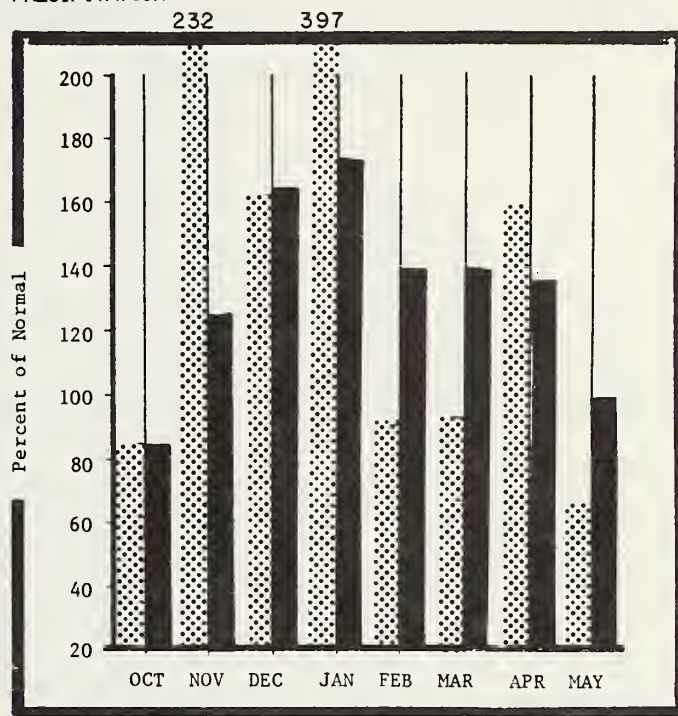
MOUNTAIN SNOWPACK\*



\*Based on selected stations



PRECIPITATION\*



\*Based on selected stations



## WATER SUPPLY OUTLOOK:

Streamflows in this basin are expected to be near normal. The snowpack has disappeared for the season. Reservoir storage is greater than at this time last year.

For more information contact your local Soil Conservation Service office.

# BELLE FOURCHE and CHEYENNE RIVER BASINS

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
-No forecasts issued in this area-										

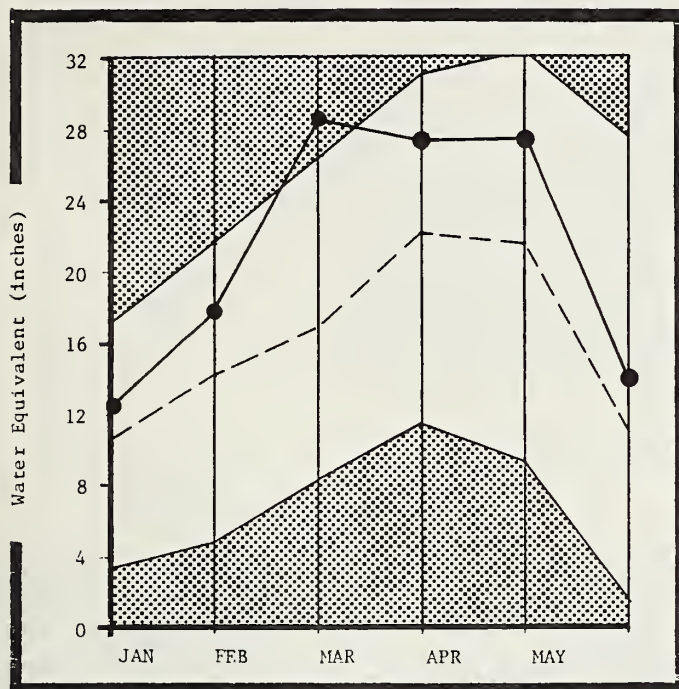
RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	USEABLE STORAGE THIS YEAR	USEABLE STORAGE LAST YEAR	USEABLE STORAGE AVE.	WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	% OF AVERAGE
ANGOSTURA	86.2	80.0	55.3	---	BELLE FOURCHE	0	0	0
BELLE FOURCHE	185.2	164.5	143.3	---				
DEERFIELD	15.1	15.1	15.0	---				
KEYHOLE	190.4	67.0	69.6	---				
PACTOLA	55.0	53.4	50.7	---				
SHADEHILL	81.5	82.2	78.4	---				

\*Corrected for upstream diversions or changes in reservoir storage.  
Average is for 1961-80 period.







# UPPER NORTH PLATTE AND LITTLE SNAKE RIVER BASINS

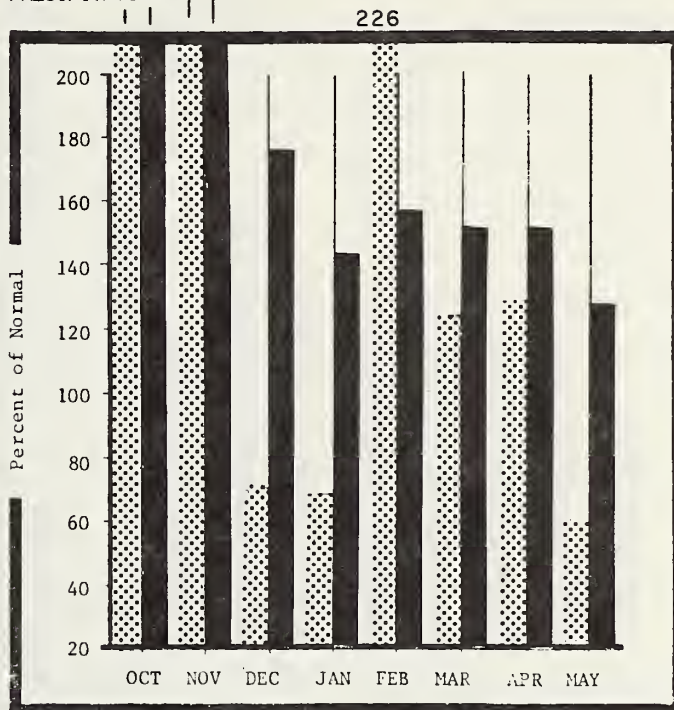
## MOUNTAIN SNOWPACK\*





\*Based on selected stations

Maximum  Average   
 Minimum  Current 

## PRECIPITATION\*



\*Based on selected stations

Monthly precipitation  Year to date precipitation 

## WATER SUPPLY OUTLOOK:

Above normal streamflows are predicted for these basins. Water users should have adequate supplies to meet their needs. Snowpack remains above to much above average for this time of the year. Seminole reservoir is holding about 250,000 acre feet of water less than at this time last year.

For more information contact your local Soil Conservation Service office.

# UPPER NORTH PLATTE and LITTLE SNAKE RIVER BASINS

## STREAMFLOW FORECASTS

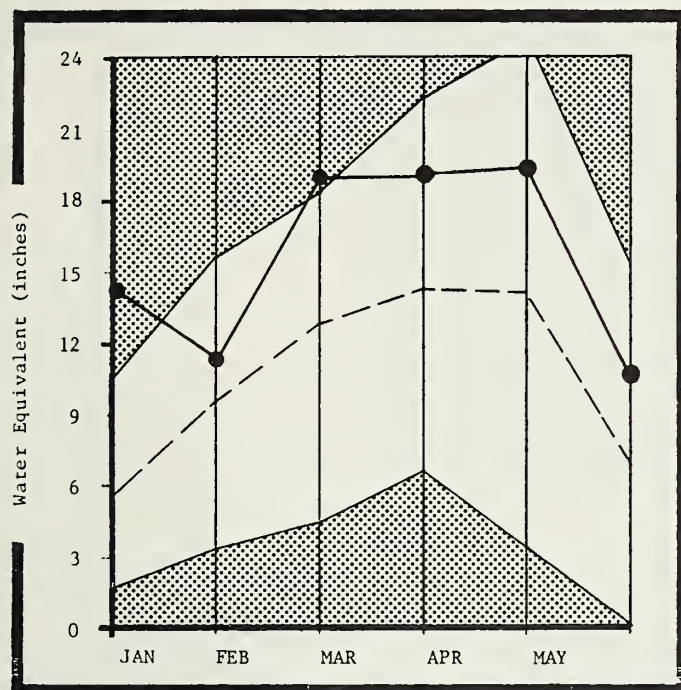
FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
NORTH PLATTE RIVER near Northgate	APR-SEP	262.0	350.0	134	153	114				
NORTH PLATTE RIVER near Sinclair	APR-SEP	710.0	927.0	131						
ENCAMPMENT RIVER near Encampment	APR-SEP	156.0	200.0	128	148	108				
ROCK CREEK near Arlington	APR-SEP	57.6	73.0	127	148	106				
LITTLE SNAKE RIVER near Dixon *	APR-SEP	320.0	390.0	122	147	97				
LITTLE SNAKE near Slater, CO *	APR-SEP	158.0	200.0	127	152	102				

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	USEABLE STORAGE THIS YEAR	USEABLE STORAGE LAST YEAR	USEABLE STORAGE AVE.	WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR. AVERAGE	
SEMINOE	1017.3	653.1	901.8	—	UPPER NORTH PLATTE	7	165	122
					ENCAMPMENT RIVER	2	184	140
					BRUSH CREEK	1	197	141
					MEDICINE BOW & ROCK CREEK	0	0	0
					N. PLATTE above SEMINOE	7	165	122
					UPPER LITTLE SNAKE RIVER	0	0	0
					SAVERY CREEK	1	177	152





\*Corrected for upstream diversions or changes in reservoir storage.  
Average is for 1961-80 period.

# LOWER NORTH PLATTE, SWEETWATER, AND LARAMIE RIVER BASINS

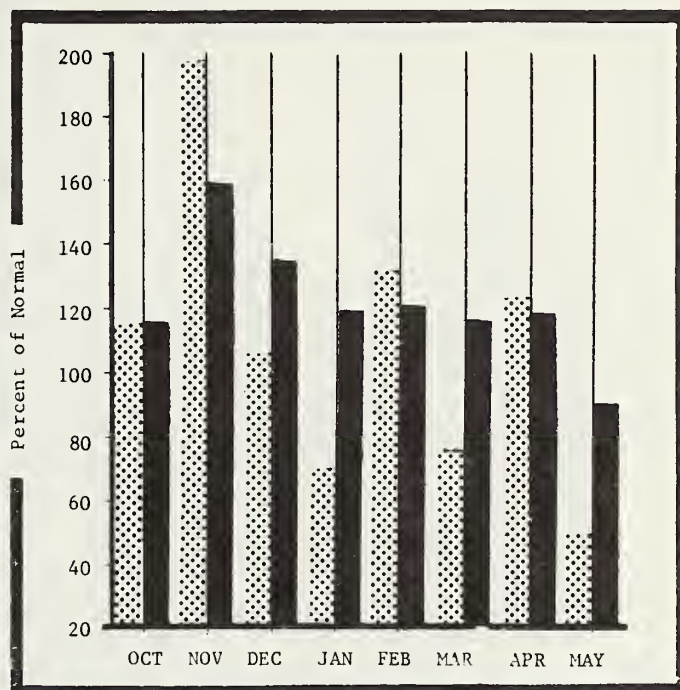
MOUNTAIN SNOWPACK\*



\*Based on selected stations

Maximum  Average   
Minimum  Current 

PRECIPITATION\*



\*Based on selected stations

Monthly precipitation  Year to date precipitation 

## WATER SUPPLY OUTLOOK:

Near normal flows, except for the Deer and LaPrele Creek drainages can be expected in this basin. Deer Creek and LaPrele Creek are expected to be about 40% below average. Snowpack below 8500 feet elevation has disappeared. Reservoir storage is more than at this time last year.

For more information contact your local Soil Conservation Service office.



# LOWER NORTH PLATTE, SWEETWATER, and LARAMIE RIVER BASINS

## STREAMFLOW FORECASTS

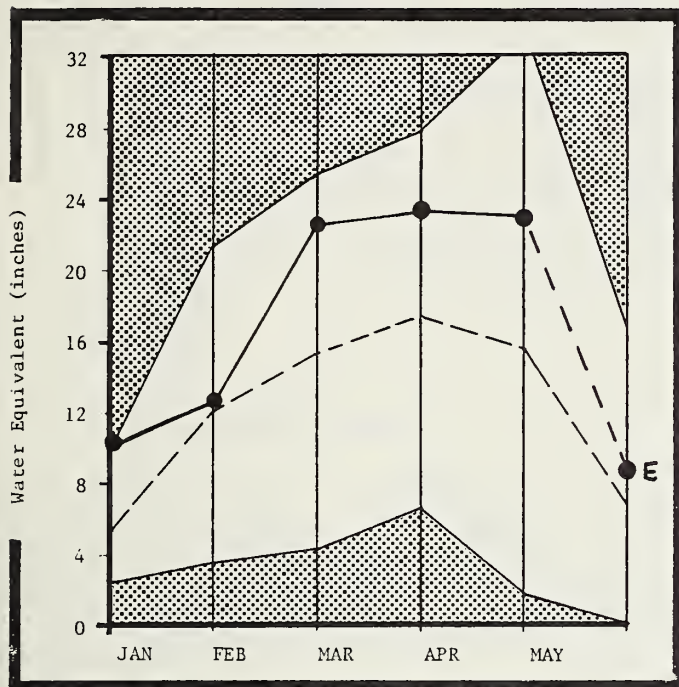
FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
NORTH PLATTE RIVER near Sinclair	APR-SEP	710.0	927.0	131						
SWEETWATER RIVER near Alcova	APR-SEP	73.7	128.0	174						
DEER CREEK at Glenrock	APR-SEP	51.8	31.8	61						
LaPRELE CREEK above Reservoir	APR-SEP	33.7	20.5	61						
NORTH PLATTE RIVER blw Glendo *	APR-SEP	973.0	1212.0	125						
NORTH PLATTE R. blw Guernsey *	APR-SEP	1001.0	1262.0	126						
LARAMIE RIVER near Woods *	APR-SEP	132.0	180.0	136	158	114				
LITTLE LARAMIE RIVER near Filmore	APR-SEP	65.1	80.0	123	144	101				

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	USEABLE THIS YEAR	USEABLE LAST YEAR	USEABLE AVE.	WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AS % OF AVERAGE
ALCOVA	184.3	179.3	179.6	182.1	SWEETWATER	1	0	220
GLENDO	789.4	484.3	470.0	---	DEER & LaPRELE CREEKS	0	0	0
GUERNSEY	45.6	43.0	31.1	---	N. PLATTE above LARAMIE	3	179	135
PATHFINDER	1016.5	1004.0	930.8	---	LITTLE LARAMIE RIVER	0	0	0
SEMINOE	1017.3	653.1	901.8	---	UPPER LARAMIE RIVER	2	192	133
WHEATLAND #2	98.9	81.2	86.3	---	LARAMIE RIVER above MOUTH	1	203	127
NORTH PLATTE PROJ	1062.1	1062.1	1193.3	999.0	NORTH PLATTE in WYOMING	14	193	137
KENDRICK PROJECT	1201.7	1206.1	1059.2	848.1				
GLENDO PROJECT USERS	183.2	110.1	174.2	163.8				





\*Corrected for upstream diversions or changes in reservoir storage.  
Average is for 1961-80 period.

# UPPER GREEN RIVER BASIN

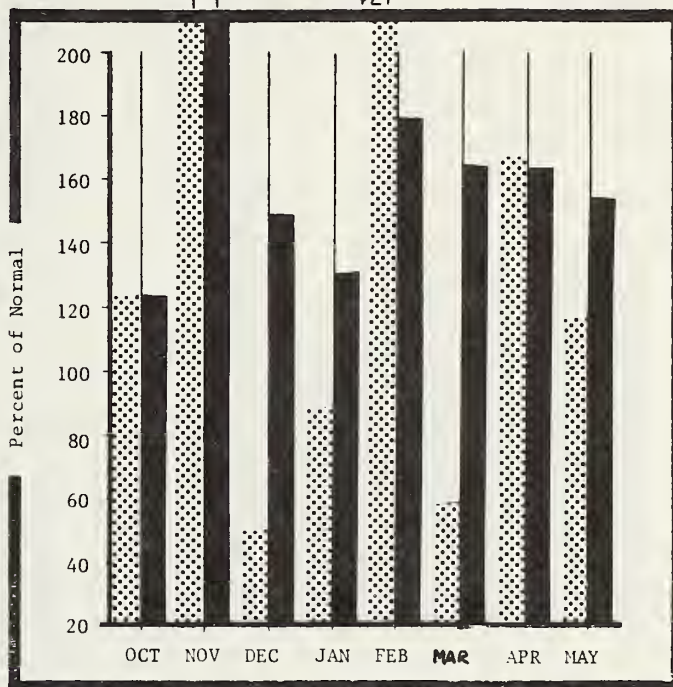
## MOUNTAIN SNOWPACK\*




\*Based on selected stations

Maximum  Average   
Minimum  Current 

## PRECIPITATION\*



\*Based on selected stations

Monthly precipitation  Year to  precipitation

## WATER SUPPLY OUTLOOK:

Heavy snowpack in this basin is causing streamflow forecasts to be much above normal. Local flooding can be expected. High flows can be expected to last well into the water use season. May precipitation for the basin was above average, with the year to date totals well above average.

For more information contact your local Soil Conservation Service office.

# UPPER GREEN RIVER BASIN

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
GREEN RIVER near Warren Bridge	APR-SEP	326.0	475.0	146	158	134				
FONTENELLE RESERVOIR Inflow	APR-JUL	869.0	1350.0	155						
LaBARGE CREEK at LaBarge Meadows	APR-SEP	8.9	14.0	157	180	135				
BIG SANDY RIVER near Big Sandy	APR-SEP	61.0	93.0	152	172	133	1250			

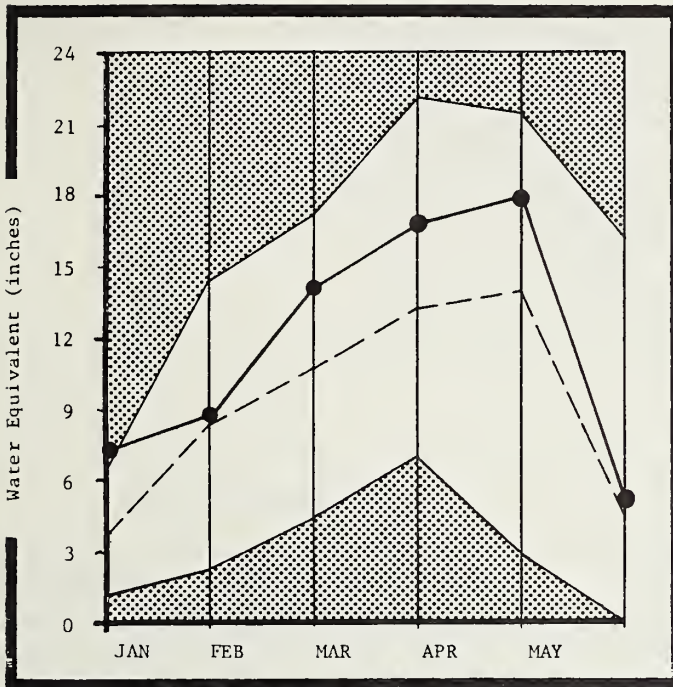
RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	XX USEABLE STORAGE THIS YEAR	XX USEABLE STORAGE LAST YEAR	XX AVE.	WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	% OF AVERAGE
BIG SANDY	38.3	37.1	32.4	---	GREEN above WARREN BRIDGE	0	0	0
EDEN	11.8	8.1	13.8	---	UPPER GREEN (West Side)	0	0	0
FLAMING GORGE	3749.0	2924.0	3356.0	---	NEWFORK LAKE	0	0	0
FONTENELLE	344.8	33.8	31.9	---	BIG SANDY/EDEN VALLEY	0	0	0
					GREEN above FONTENELLE	0	0	0

\*Corrected for upstream diversions or changes in reservoir storage.  
Average is for 1961-80 period.



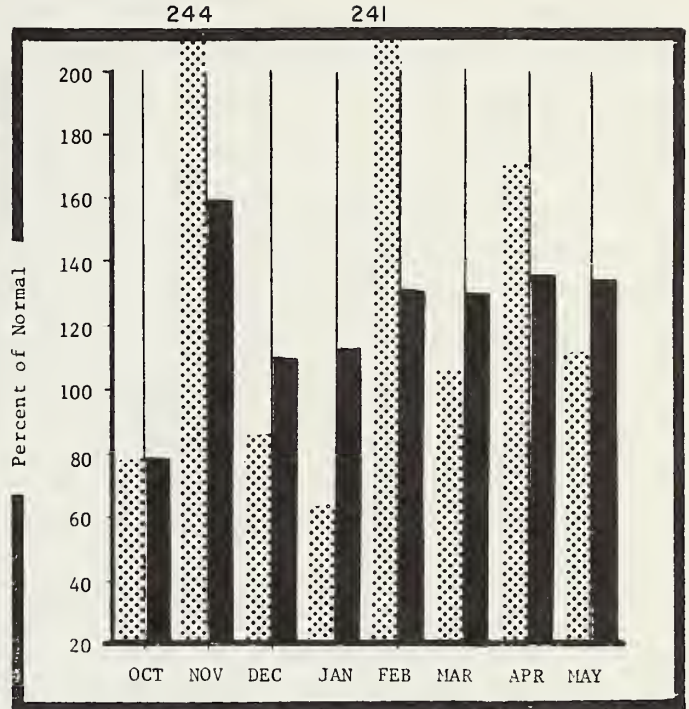
# LOWER GREEN RIVER BASIN

## MOUNTAIN SNOWPACK\*









\*Based on selected stations

## PRECIPITATION\*



\*Based on selected stations

Maximum  Average   
Minimum  Current 

Monthly precipitation  Year to date precipitation 

## WATER SUPPLY OUTLOOK:

Streamflow forecasts for this portion of the Green River Basin is for much above average flows. Flows as much as 50% above normal can be expected.

For more information contact your local Soil Conservation Service office.

# LOWER GREEN RIVER BASIN

## STREAMFLOW FORECASTS

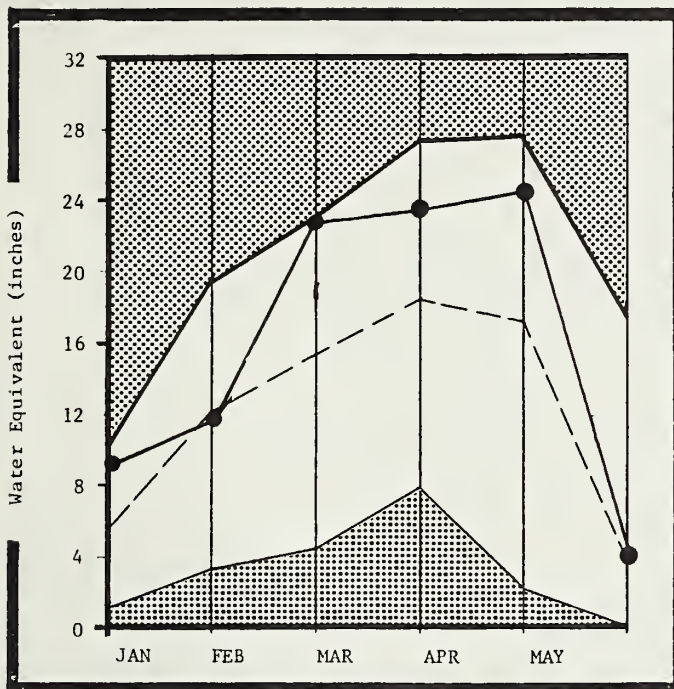
FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
FONTENELLE RESERVOIR Inflow	APR-JUL	869.0	1350.0	155						
HAMS FORK near Frontier	APR-SEP	71.3	125.0	175	195	156				
GREEN RIVER near Green River, WY *	APR-SEP	1079.0	1675.0	155	175	135				
BLACKS FORK near Milburne, UT	APR-JUL	89.9	125.0	139						
HENRYS FORK near Manila, UT	APR-SEP	48.0	72.0	150						
FLAMING GORGE Inflow *	APR-JUL	1248.0	2050.0	164						

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	USEABLE STORAGE THIS YEAR	USEABLE STORAGE LAST YEAR	USEABLE STORAGE AVE.	WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	% OF AVERAGE
FONTENELLE	344.8	33.8	31.9	---	HAMS FORK RIVER	0	0	0
FLAMING GORGE	3749.0	2924.0	3356.0	---	BLACKS FORK	4	297	118
VIVA NAUGHTON RES	42.4	31.4	44.0	---	HENRYS FORK	1	0	0
					GREEN above FLAMING GORGE	0	0	0





\*Corrected for upstream diversions or changes in reservoir storage.  
Average is for 1961-80 period.

# UPPER BEAR RIVER BASIN

MOUNTAIN SNOWPACK\*

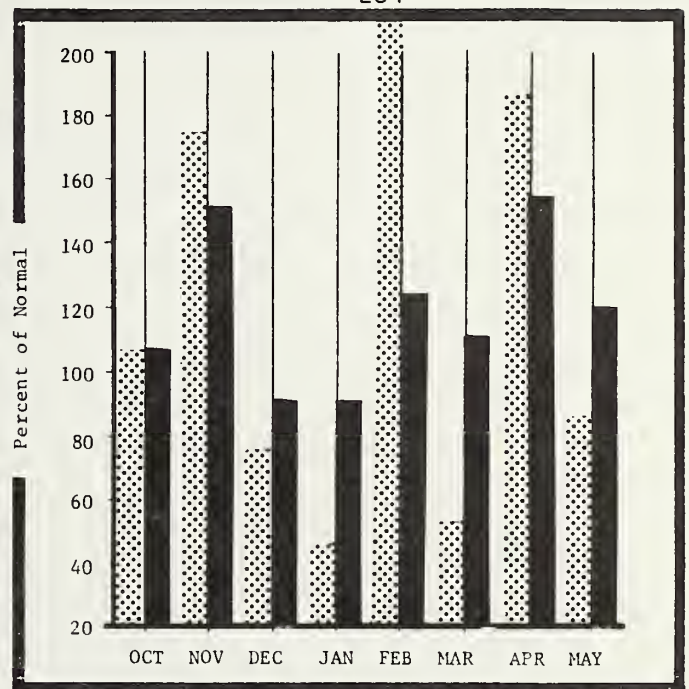


\*Based on selected stations

Maximum  Average   
 Minimum  Current 

PRECIPITATION\*

284



\*Based on selected stations

Monthly precipitation  Year to date precipitation 

## WATER SUPPLY OUTLOOK:

Water users can expect much above average streamflows for this basin. Flows are predicted to be nearly 40% above average. Snowpack continues to be above average for this time of year.

For more information contact your local Soil Conservation Service office.



# UPPER BEAR RIVER BASIN

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
SMITHS FORK near Border	APR-SEP	119.0	165.0	139	159	118				
THOMAS FORK near State line	APR-SEP	35.1	55.0	157	177	137				
BEAR RIVER at Utah-Wyoming line	MAY-JUL	105.0	150.0	143						
BEAR RIVER near Woodruff, UT	MAY-JUL	116.0	162.0	140						
BEAR RIVER near Randolph, UT	MAY-JUL	82.0	168.0	205						

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	USEABLE STORAGE THIS YEAR	USEABLE STORAGE LAST YEAR	USEABLE STORAGE AVE.	WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR. AVERAGE	
WOODRUFF NARROWS	55.8	59.4	59.1	---	UPPER BEAR RIVER	2	0	0
					SMITHS & THOMAS FORK'S	0	0	0
					BEAR RIVER abv IDAHO line	3	3200	113

\*Corrected for upstream diversions or changes in reservoir storage.  
Average is for 1961-80 period.

THE FOLLOWING ORGANIZATIONS COOPERATE  
WITH THE SOIL CONSERVATION SERVICE  
IN SNOW SURVEY WORK

State

Conservation Districts of Wyoming  
State Engineer of Wyoming  
Department of Water Resources of Nebraska  
Irrigation Districts of Wyoming  
University of Wyoming  
    Department of Atmospheric Resources  
    Department of Agricultural Engineering

Federal

U.S. Department of Agriculture  
    Soil Conservation Service  
    Forest Service  
  
U.S. Department of Commerce  
    NOAA, National Weather Service  
  
U.S. Department of Interior  
    Bureau of Reclamation  
    Geological Survey  
    National Park Service  
    Bureau of Indian Affairs  
    Bureau of Land Management

Private

Utah Power and Light Company  
Eden Valley Irrigation District

Other organizations and individuals furnish information for the snow survey reports. Their cooperation is gratefully acknowledged.

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Soil Conservation Service  
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